

Contents to volume 190

Editorial: Change of Managing Editor i

Review – Hypothesis

- Ribosome – SRP – signal sequence interactions: The relay helix hypothesis (FEBS 2944) *G. von Heijne* 1

Research Letters

- Phorbol myristate acetate causes in guinea-pig lung parenchymal strip a maintained spasm which is relatively resistant to isoprenaline (FEBS 2939) *M.M. Dale, W. Obianime* 6
- Stimulation of tyrosine phosphorylation of rat brain membrane proteins by calmodulin (FEBS 2938) *D.F. Michiel, J.H. Wang* 11
- Effect of spectrin dimer on actin polymerization (FEBS 2916) *M. Strömqvist, L. Backman, V.P. Shanbhag* 15
- Direct measurements of increased free cytoplasmic Ca^{2+} in mouse pancreatic β -cells following stimulation by hypoglycemic sulfonylureas (FEBS 2931) *H. Abrahamsen, P.-O. Berggren, P. Rorsman* 21
- Muscarinic receptor-mediated increase in cytoplasmic free Ca^{2+} in isolated bovine adrenal medullary cells: Effects of TMB-8 and phorbol ester TPA (FEBS 2937) *M. Misbahuddin, M. Isosaki, H. Houchi, M. Oka* 25
- Transient deprotonation of bacterial halorhodopsin by photoexcited base (FEBS 2904) *M. Gutman, E. Nachliel* 29
- Increasing intracellular pH of sea urchin sperm with NH_4Cl induces Ca^{2+} uptake and acrosome reaction in the absence of egg jelly (FEBS 2910) *J. Garcia-Soto, L. de De la Torre, A. Darszon* 33
- A temperature dependent transition in the Pribnow box of the trp promoter (FEBS 2917) *J.-F. Lefevre, A.N. Lane, O. Jardetzky* 37
- The complete amino acid sequence of the large bacteriochlorophyll-binding polypeptide B870 α from the light-harvesting complex B870 of *Rhodospseudomonas capsulata* (FEBS 2947) *M.H. Tadros, G. Frank, H. Zuber, G. Drews* 41
- γ -Globin gene triplication and quadruplication in Japanese newborns: Evidence for a decreased in vivo expression of the 3'- Λ γ -globin gene (FEBS 2915) *K. Harano, T. Harano, F. Kutlar, T.H.J. Huisman* 45
- Rapid down-regulation of protein kinase C and membrane association in phorbol ester-treated leukemia cells (FEBS 2946) *R.G. Wickremasinghe, A. Piga, D. Campana, J.C. Yaxley, A.V. Hoffbrand* 50
- Evidence for a role of high K_m aldehyde reductase in the degradation of endogenous γ -hydroxybutyrate from rat brain (FEBS 2928) *P. Vayer, M. Schmitt, J.-J. Bourguignon, P. Mandel, M. Maitre* 55
- Identification of γ -type hordeins in barley (FEBS 2924) *P.R. Shewry, M. Kreis, S. Parmar, E.J. -L. Lew, D.D. Kasarda* 61
- Characterization of Clq, Cls and Cl Inh synthesized by stimulated human monocytes in vitro (FEBS 2925) *A. Reboul, M.-H. Prandini, J.-C. Bensa, M.G. Colomb* 65
- Biosynthesis of intestinal microvillar proteins: The intracellular transport of aminopeptidase N and sucrase-isomaltase occurs at different rates pre-Golgi but at the same rate post-Golgi (FEBS 2936) *E.M. Danielsen, G.M. Cowell* 69
- Three-dimensional structure of $(\text{Na}^+ + \text{K}^+)\text{-ATPase}$ revealed by electron microscopy of two-dimensional crystals (FEBS 2935) *Yu.A. Ovchinnikov, V.V. Demin, A.N. Barnakov, A.P. Kuzin, A.V. Lunev, N.N. Modyanov, K.N. Dzhandzhugazyan* 73
- Thermodynamics of the binding of calcium and strontium to bovine α -lactalbumin (FEBS 2950) *J.-J. Schaer, M. Milos, J.A. Cox* 77

Lack of nucleotide cleavage on the binding of G-actin-ATP to plasma gelsolin (FEBS 2926) <i>H.E. Harris</i>	81
Glycogen synthase (casein) kinase-1: tissue distribution and subcellular localization (FEBS 2948) <i>T.J. Singh, K.-P. Huang</i>	84
Isolation and amino acid sequence of the smallest subunit of beef heart <i>bc</i> ₁ complex (FEBS 2949) <i>H. Schägger, U. Borchart, H. Aquila, T.A. Link, G. von Jagow</i>	89
Sympathetic neurons extend neurites in a culture medium containing cyanide and dinitrophenol but not iodoacetate (FEBS 2952) <i>A.R. Wakade, J.C. Prat, T.D. Wakade</i>	95
Studies on the maintenance of cytochromes P-450 and <i>b</i> ₅ , monooxygenases and cytochrome reductases in primary cultures of rat hepatocytes (FEBS 2953) <i>M.H. Grant, M.A.L. Melvin, P. Shaw, W.T. Melvin, M.D. Burke</i>	99
Resolution of bovine brain calcineurin subunits: stimulatory effect of subunit B on subunit A phosphatase activity (FEBS 2927) <i>R.C. Gupta, R.L. Khandelwal, P.V. Sulakhe</i>	104
Poly-ADP-ribosylated histones: potent DNA suppressors (FEBS 2958) <i>F.-L. Yu</i>	109
Cytoplasmic pH, a key determinant of growth factor-induced DNA synthesis in quiescent fibroblasts (FEBS 2957) <i>J. Pouyssegur, A. Franchi, G. L'Allemain, S. Paris</i>	115
A monoclonal antibody specific for the duplex DNA poly[d(TC)]·poly[d(GA)] (FEBS 2961) <i>J.S. Lee, L.J.P. Latimer, M.L. Woodsworth</i>	120
Modification of the amino acid acceptor stem of <i>E. coli</i> tRNA ^{Met} by ligation of chemically synthesized ribooligonucleotides (FEBS 2828) <i>T. Doi, H. Morioka, J. Matsugi, E. Ohtsuka, M. Ikehara</i>	125
A new isocratic HPLC separation for Pth-amino acids, based on 2-propanol (FEBS 2923) <i>K. Ashman, B. Wittmann-Liebold</i>	129
Neurokinin B is hydrolysed by synaptic membranes and by endopeptidase-24.11 ('enkephalinase') but not by angiotensin converting enzyme (FEBS 2966) <i>N.M. Hooper, A.J. Turner</i>	133
Discovery of a γ -carboxyglutamic acid-containing protein in human spermatozoa (FEBS 2964) <i>B.A.M. Soute, W. Müller-Esterl, M.A.G. de Boer-van den Berg, M. Ulrich, C. Vermeer</i>	137
Presence of helodermin-like peptides of the VIP-secretin family in mammalian salivary glands and saliva (FEBS 2955) <i>P. Robberecht, P. De Neef, A. Vandermeers, M.-C. Vandermeers-Piret, M. Svoboda, S. Meuris, J. De Graef, M.-C. Woussen-Colle, C. Yanaihara, N. Yanaihara, J. Christophe</i>	142
Purification of the human thyroid peroxidase and its identification as the microsomal antigen involved in autoimmune thyroid diseases (FEBS 2954) <i>B. Czarnocka, J. Ruf, M. Ferrand, P. Carayon, S. Lissitzky</i>	147
The 25 kDa protein kinase inhibitor present in liver cell is absent in fast growing HTC cells and is induced in sodium butyrate treated cells (FEBS 2956) <i>M. Delpech, F. Lévy-Favatier, L. Tichonicky, J. Kruh</i>	153
Biosynthesis of abnormally glycosylated hepatoma secretory proteins in cell cultures (FEBS 2960) <i>R. Alm, S. Eriksson</i>	157
Acetylcholine stimulates phosphatidylinositol turnover at nicotinic receptors of cultured myotubes (FEBS 2959) <i>S. Adamo, B.M. Zani, C. Nervi, M.I. Senni, M. Molinaro, F. Eusebi</i>	161
Trimeric structure and other properties of the chloroplast reductase binding protein (FEBS 2963) <i>E.A. Ceccarelli, R.L. Chan, R.H. Vallejos</i>	165
Sirohydrochlorin, a precursor of factor F ₄₃₀ biosynthesis in <i>Methanobacterium thermoautotrophicum</i> (FEBS 2962) <i>H. Mucha, E. Keller, H. Weber, F. Lingens, W. Trösch</i>	169
Booklist Reviews and Booklist No. 61	172
Corrigenda	185
Notes to Authors	187